1. A_One - Loopy Lambda

Input File: none

Program Name: A One.java

Java 8 has some really cool stuff! Below is a complete program that creates a list of integers and outputs the list in six different ways, two of which are new techniques from Java 8.

- The first three are the traditional **for**, **while**, and **do while loop** processes.
- Next is the for each loop.
- The fifth uses a lambda expression.
- The sixth uses the double colon output technique.

There is no input required for this program. Just use the List structure provided, and choose four different ways to accomplish the same output. The judge will look at your source code to make sure you used **four different ways**. **You are welcome to copy the code shown below for your solution.**

You are encouraged to use the new Java 8 techniques shown, but only if you're running Java 8.

DO NOT simply create the output by hardcoding.

```
import java.util.*;
import static java.lang.System.*;
public class One{
       public static void main(String...args) {
               List<Integer> list = Arrays.asList(1, 2, 3, 4, 5, 6, 7);
               //traditional for loop
               int x=0;
               for (x=0; x<list.size(); x++)
                      out.print(list.get(x));
               out.println();
               //while loop
               x=0;
               while(x<list.size()){
                      out.print(list.get(x));
                       x++;
               out.println();
               //do while loop
               x=0:
               do {
                       out.print(list.get(x));
                       x++;
               }while(x<list.size());</pre>
               out.println();
               //for each loop
               for(int n:list)
                   out.print(n);
               out.println();
               //lambda version...new with Java 8
               list.forEach(n->out.print(n));
               out.println();
               //new Java 8 double colon print statement...very cool!
               list.forEach(out::print);
               out.println();
```

Input: None

1234567

Output: Four lines of digits as shown below, each line produced by a different iterative process of your own choosing.

The output is NOT to be hardcoded by simply outputting the string, "1234567".

Sample input: None **Actual output:** 1234567 1234567 1234567